NOT 3131 156081

PRELIMIN	AZARDOUS WASTE SITE I. IDENTIFICATION OF STATE OF SUITE NUMBER ILD 9806 06
IL SITE NAME AND LOCATION OI SITE HAME (Legge copper or describe and for Jam.)	PRIMATION AND ASSESSMENT
OI SITE WANTE (Lague comprises or describe grapes for from)	
	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Francis Co Div of The Diame	and Road 1200 E Smith + Rte. 16E
03 CITY	04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY
Hillsboro	12 G2049 Montgomery 135
09 COORDINATES LATITUDE LONGITUDE	
390945.0 0892900.0	Hillsboro Quad (2028)
10 DIRECTIONS TO SITE (Starting from nearest public road)	
See Ati	tached Map
IN. RESPONSIBLE PARTIES	
01 OWNER (# known)	02 STREET (Business, malling, readential)
T. L. Diamond & Co Inc	Unknown
03 CITY	
New York	Ny Unk Unk.
07 OPERATOR (N known and different from owner)	08 STREET (Business, maling, readential)
Eagle Zinc Co. Hillsboro	P.O. Box 340
DE CITY	10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER
	IL 62049 12171532-3971
13 TYPE OF OWNERSHIP (Check one) N A. PRIVATE B. FEDERAL:	
☐ F. OTHER:	(I) G. UNKNOWN
(Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)	
	_
□ A. RCRA 3001 DATE RECEIVED: / / YEAR / B. UNCON	ITROLLED WASTE SITE (CERCLA 103 C) DATE RECEIVED: 6 18 18 0 C
□ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR DE UNCON	NTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 6 18 18 0 C
IV. CHARACTERIZATION OF POTENTIAL HAZARD 01 ON SITE INSPECTION BY (Check all that apply)	B. EPA CONTRACTOR C. STATE D. O. OTHER CONTRACTOR
IV. CHARACTERIZATION OF POTENTIAL HAZARD 01 ON SITE INSPECTION BY (Check all that apply)	B. EPA CONTRACTOR ACC. STATE D. O. OTHER CONTRACTOR
IV. CHARACTERIZATION OF POTENTIAL HAZARD 101 ON SITE INSPECTION AYES DATE 2 8 9	B. EPA CONTRACTOR (C. STATE D. O. OTHER CONTRACTOR (Specify) IE(S): (Specify) FOPERATION
IV. CHARACTERIZATION OF POTENTIAL HAZARD 101 ON SITE INSPECTION XYES DATE 2/8/8/ - A. EPA - E. LOCAL HEALT 7-3-84 CONTRACTOR NAM	B. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR (Specify)
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	NTIFICATION	
OI STA	TE 02 SITE NUMBER 9806069	4/

				EINFORMATION				
M. WASTE ST	TATES, QUANTITIES, AN	ID CHARACTERI	STICS					
O1 PHYSICAL STATES CHOCK AF ITMA MODILY A SOLID E SLURRY A POWDER FINES F LIQUID C SLUDGE G GAS CUBIC		02 WASTE QUANTI	WASTE QUANTITY AT SITE IMMESURES OF MESTE QUANTITIES TOUS CUBIC YARDS LIKE WASTE		03 WASTE CHARACTERISTICS (Chock at that a A TOXIC E SOLU B CORPOSIVE F INFEC C RADIOACTIVE G FLAM D PERSISTENT H IGNIT:		BLE I HIGHLY VOLATILE ITIOUS J EXPLOSIVE MABLE K REACTIVE	
III. WASTE T	YPE							
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			
SLU	SLUDGE		İ					
OFM	OILY WASTE							
SOL	SOLVENTS							
PSD	PESTICIDES							
occ	OTHER ORGANIC CH	1EMICALS						
IOC	INORGANIC CHEMIC	ALS						
ACD	ACIDS							
BAS	BASES							
MES	HEAVY METALS			nown	L			
	DUS SUBSTANCES IS. A		1			·	OR MEADURE OF	
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE DISI	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION	
								
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V EEFDETO	CKS :See Appendix for CAS Numbi		<u> </u>	<u> </u>		<u> </u>	L	
CATEGORY	01 FEEDSTOC		02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER	
FDS	0172203100		OZ CAS NUMBER	FDS	OT FEEDS!	OON HAMIL	OZ CAS NUMBER	
FDS			 	FDS				
FDS				FDS				
FDS			†	FDS				
	S OF INFORMATION 1910	specific references, e a	Stare liles sample analysis					
				Air, Wa	ter, La	nd)		

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

ILD 980606 94/

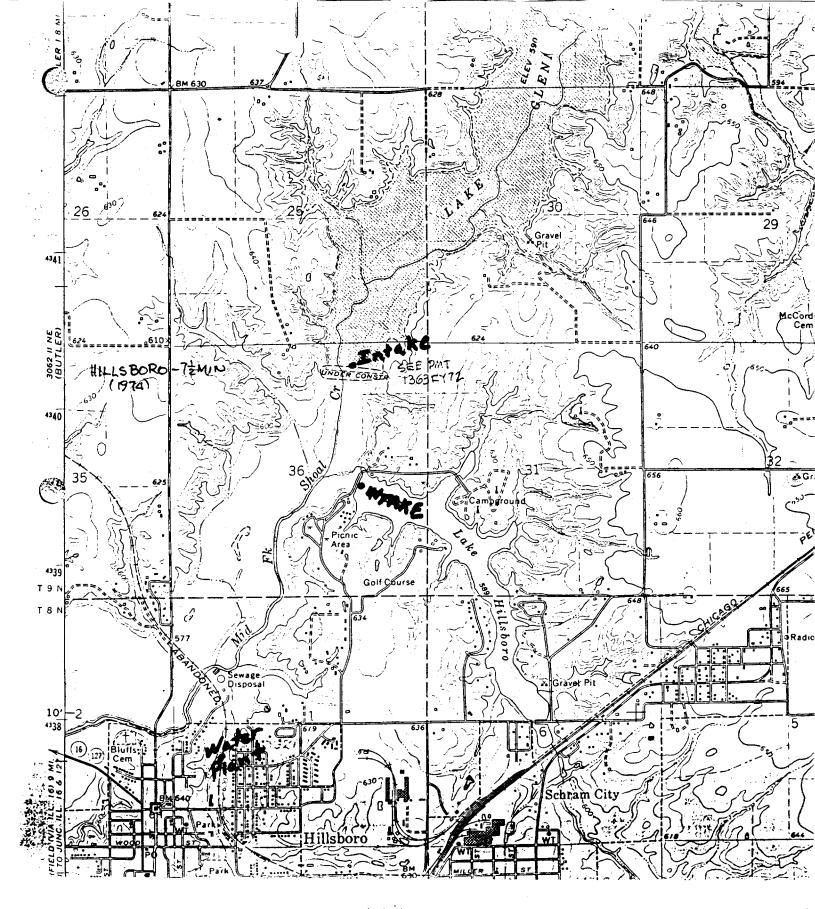
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

N. HAZARDOUS CONDITIONS AND INCIDENTS			
01 Y A. GROUNDWATER CONTAMINATION	02 () OBSERVED (DATE		
Outside storage of 1 bearing ore. No control	arge quantities of	T Zunc & New	
bearing ore. No control	achments A &	B	
01 MB. SURFACE WATER CONTAMINATION 4500	02 X OBSERVED (DATE 3-23-6 04 NARRATIVE DESCRIPTION above Rule 2	92 POTENTIAL 03(f) a3 57	ated
in Attach n affected area	nent B, Hills	boro intake	in
01 C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED	02 C. OBSERVED (DATE 04 NARRATIVE DESCRIPTION	POTENTIAL	C: ALLEGED
01 © D FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED	02 C OBSERVED (DATE. 04 NARRATIVE DESCRIPTION) (, POTENTIAL	□ ALLEGED
01 © E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED	02 OBSERVED (DATE 04 NARRATIVE DESCRIPTION) © POTENTIAL	C ALLEGED
01 XF. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: 35	02 OBSERVED (DATE 12-14 04 NARRATIVE DESCRIPTION	-X2) POTENTIAL	C ALLEGED
See Attach	ment A		
01 XG. DRINKING WATER CONTAMINATION 2 6000	02 L) OBSERVED (DATE	POTENTIAL	ALLEGED
Shallow and deep	well sources ?	for potable	waterf
Surface Intakes See	AdBabove		
01 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 (1) OBSERVED (DATE) Li POTENTIAL	C ALLEGED
01 E31 POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 (1) OBSERVED (DATE: 04 NARRATIVE DESCRIPTION) L) POTENTIAL	(a ALLEGED

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

	ARY ASSESSMENT ZARDOUS CONDITIONS AND INCIDENTS	ILD 98	0606941
IL HAZARDOUS CONDITIONS AND INCIDENTS (Communical)			
01 DJ. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (secudo namera) of species)	02 🗆 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 - OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
01 [] M UNSTABLE CONTAINMENT OF WASTES (Spalls runoff standing liquids leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	□ ALLEGED
01 (1) N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 L; OBSERVED (DATE:)	POTENTIAL	□ ALLEGED
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	ALLEGED .
01 [] P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	GED HAZARDS		
III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS			
T. JOHNERIS			
V. SOURCES OF INFORMATION (Cre specific references, e.g., state files,	Sample analysis, reports)		
IEPA File	s (Air, Water, Lai	rd)	



EXECUTIVE SUMMARY

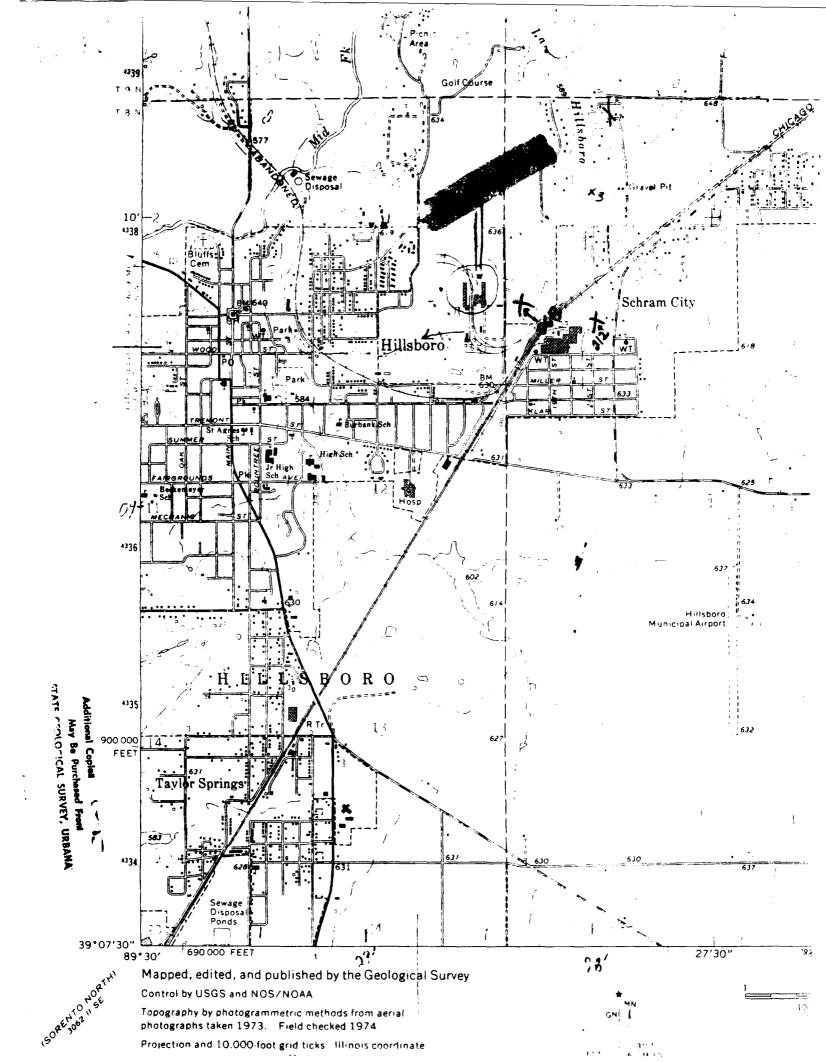
Eagle Zinc Company is involved in the manufacture of zinc oxide from high zinc bearing ore. The resulting zinc oxide is used as a paint pigment. Eagle Zinc, a division of T. L. Diamond, purchased this site as of 3/15/84 from Sherwin-Williams who purchased the facility from Eagle Pitcher in November 1980. During Eagle Pitcher's ownership and also during Sherwin-Williams' lead bearing ore was also processed for the production of lead oxide pigment.

The zinc and lead ores used in these processes have been stockpiled outside in uncontrolled storage and herein lies the problem. The major percentage of surface water appears to feed into an onsite pond which discharges into a tributary of Shoal Creek. The Shoal Creek system is utilized by the City of Hillsboro for its water supply and a fairly large rural population are dependent on groundwater.

During 1983 a cleanup of the ore stockpiles was undertaken by Sherwin-Williams but little or no attention was paid to the sludges in the pond or to groundwater quality. It is unknown to this author if the surface cleanup was completed and if so how effective it was.

A medium priority has been assigned to this site. It is felt that particular attention should be paid to the quality of Sherwin-Williams' cleanup and the material which probably exists in the sediments of the on site pond. Monitoring wells should be advised with testing for priority pollutants.

RL:mkb:S/36





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Hach men MEMORANDUM

DATE:

May 4, 1983

TO:

Field Operations Section & Records Unit/DWPC

FROM:

John J. Forneris, Manager, Region 5, FOS/DWPC

SUBJECT:

Sherwin-Williams, Inc. (Montgomery Co, Hillsboro)

Meeting Regarding

Waste Material Disposal Program

Accompanied by: T. R. Kluge, Region 5, FOS/DWPC

Attendees: See attachment

As a follow up to our meeting of December 14, 1982, regarding a needed pollution abatement program for the Sherwin-Williams zinc processing plant at Hillsboro and a letter from Dr. A. K. Nanda, Vice President and Director of Manufacturing, dated 3/28/83, a meeting was held on the above date at the Hillsboro plant site to review what improvements had been made to date to abate their pollution problem and what was included in their continuing abatement program.

During the meeting we were advised that approximately 36 million pounds (26,500,000 lb. of muffle dross, 1,200,000 lb. of mixed furnace charge, and 8,200,000 lb. of oversize material) or 17,963 tons of material was removed from 10 acres on the site as of 4/30/83. It is planned to finish the major removal in two weeks of an additional 8 or million pounds on a 2 to 3 acre site. The attached map shows the general areas of material removal as of 4/30/83. The material removed is trucked to Granite City where 3 million pounds per shipment is sent by barge to St. Joe Minerals, Manacoa, Penn. where it requires special electric furnaces to recover the remaining zinc from the feedstock (muffle dross). The areas cleared are covered with dirt available on the existing property.

The process at this plant involves making ZnO using soft and anthracite coal with the ore in Weatheral grate furnaces.

It is estimated that there is a total of 25 acres of zinc material on the premises. Ten to thirteen acres are high in zinc (muffle dross). Twelve acres is secondary feedstock which can be used at the Hillsboro plant or can be sold to others. It contains 20% zinc, 0.2% iron and some silicon carbon; it contains no lead or manganese. It is now being blended into the current operation of the contains felt is now being blended into the current operation of the contains acres of zinc materials. It

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Environmental Programmental State Communications

Sherwin-Williams, Inc. (Montgomery Co, Hillsboro)
Page 2

Meeting Regarding Waste Material Disposal Program

that the zinc in this material is tied to the carbon and silica and will not leach out since its not soluable in water. A leach test to confirm this however has not been conducted.

Pictures of the total property area were taken during this visit and are on file in this office. When removal of the remaining 3 acres is complete, a sampling survey of the adjoining streams will be coordinated with Sherwin-Williams to see what degree of abatement has been achieved by the work accomplished to date.

Attachment

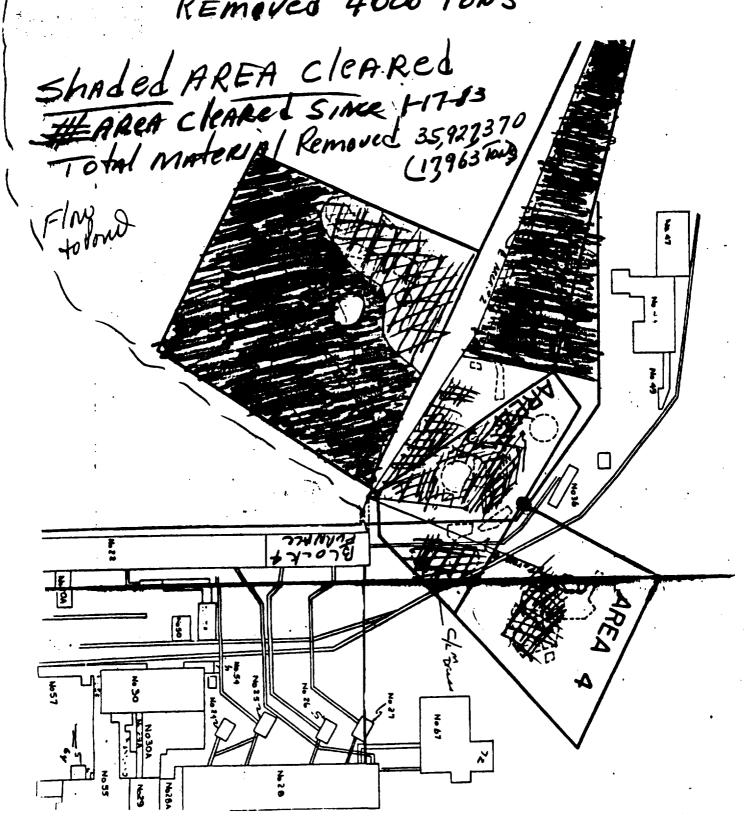
JJF/bp 6-16-83

cc: Region 5, Springfield T. R. Kluge, Permits

AREAMI APPROX 4 ACRES CLEARED REMOVED, 7500 TONS

1-17-83 5-3-83

AREA NO Z. APPROX 3 ACRES CLEARED REMOVED 4000 TONS





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE:

March 23, 1982

TO:

Field Operations Section & Records Unit/DWPC

FROM:

Timothy R. Kluge, Region V Springfield, FOS/DWPC

SUBJECT:

Sherwin-Williams Chemical Company (Hillsboro, Montgomery County)

Wastewater Discharge Reconnaissance Inspection

Interviewed: Pete Meehan, General Manager Dave Lewis, Site Manager

Rich Mulcahy, Former Site Manager

On the above date, I revisited the Sherwin-Williams site to collect additional samples and document possible water quality violations caused by runoff from the zinc smelting spoil on the site. Previous site visits had been made on September 22 and November 19, 1981, and limited sampling indicated possible cadmium, iron, lead, zinc, and copper violations from site runoff.

Sample locations are shown on the attached area map, and a tabulation of the sample results is also attached. The samples indicate that discharges from the site contribute to water quality violations for iron and zinc. In both cases, the samples taken in a location believed to be upstream of any plant runoff contained concentrations in excess of water quality standards. Since there is no other known sources of these contaminants in the area, this location may also receive runoff from the plant site.

Based on this and previous surveys, runoff from the Sherwin-Williams plant site appears to be causing or contributing to water quality violations for dissolved metals. In addition, orange deposits in the pond on the plant property and in the stream downstream of the plant appear to be precipitated iron, violating Rule 203(a) of Chapter 3. A letter will be sent to the company noting these apparent violations.

It was also learned during the visit that sanitary wastes from the plant are treated in a septic system with no reported surface discharge.

cc: Region V Springfield

Sherwin-Williams Sampling

March 23, 1982

			Station			
<u>Parameter</u>	<u>A-1</u>	<u>B-1</u>	<u>C-1</u>	D-1	<u>D-2</u>	Rule 203(f)
TS/EC	300	460	580	300	380	1000
pН	7.1	7.5	7.1	7.7	7.5	6.5-9
R.O.E.	329	514	650	32 1	450	
Arsenic	0.001	0.001	~ 0.001	0.001	< 0.001	_ 1.0
Barium	0.1	0.1	< 0.1	0.1	0.1	5.0
Boron	0.2	0.3	0.5	0.3	0.4	1.0
Cadmium	∠ 0.005	4 0.005	0.01	∠ 0.005	0.005	0.05
Copper	< 0.01	40.01	∠ 0.01	<0.01	∠ 0.01	0.02
Chromium (Tot.)	∠ 0.05	4 0.05	~ 0.05	€0.05	0,05 کے	1.05
Chromium (Hex.)	0.0	0.0	0.0	0.0	€.0	0.05
Troll was	2.3	- 1.8	2.8	, 1.9	0,68	1.0 *
Lead	≥0.05	∠ 0.05	∠ 0.05	∠ 0.05	∠ 0.05	0.1
Manganese	1.7	0.37	0.46	0.22	0. 49	1.0
Nickel	<0.05	∠ 0.05	€0.05	← 0.05	~ 0.05	1.0
Selenium	0.001ء	40.001	<0.001	∠ 0.001	∠ 0.001	1.0
Silver	<0.005	← 0.005	∠0.005	<0.005	<0.005	0.005
Zinc	3.6	2.2	8.7	€0.05	6.3	1.0

